

FIG.1

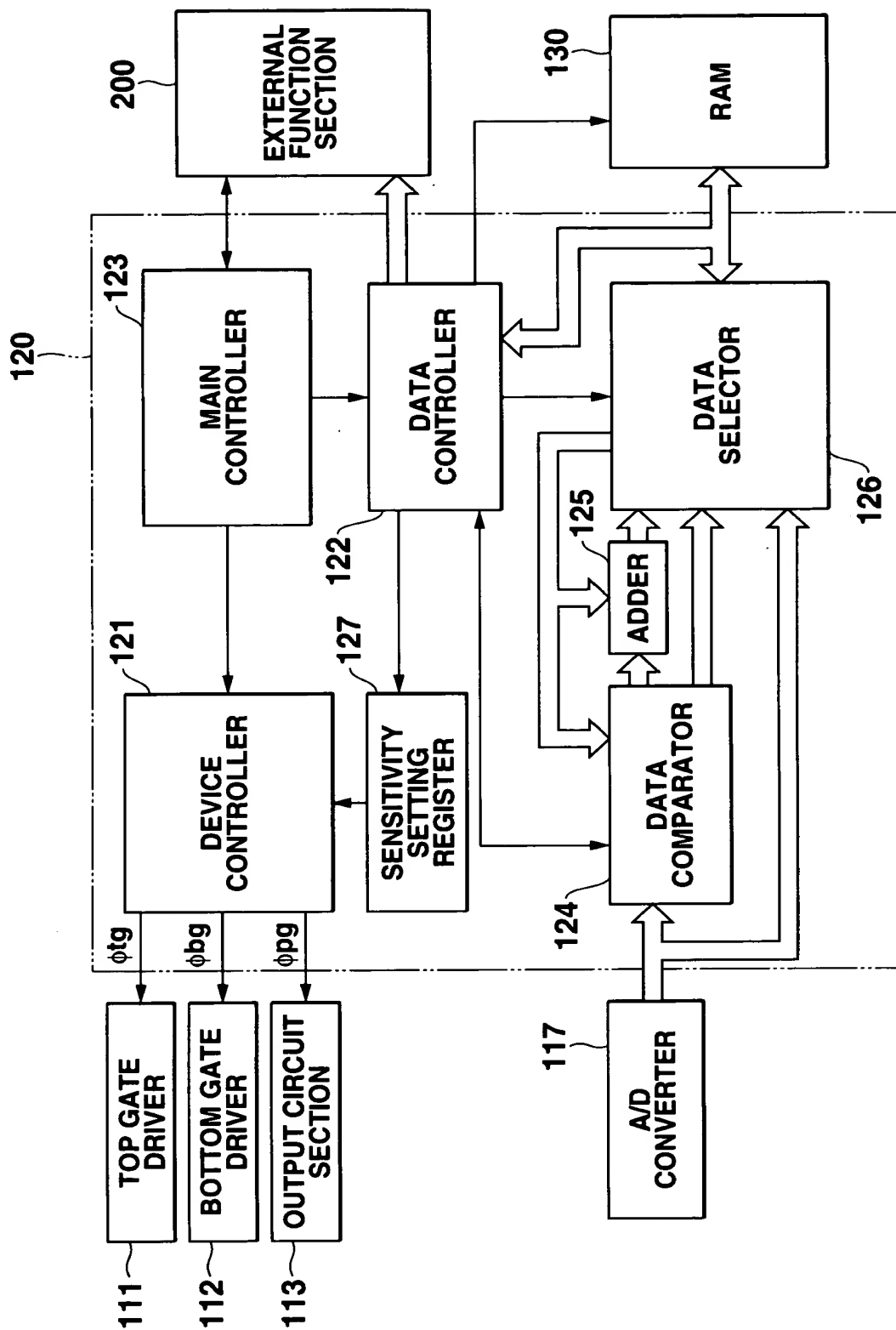
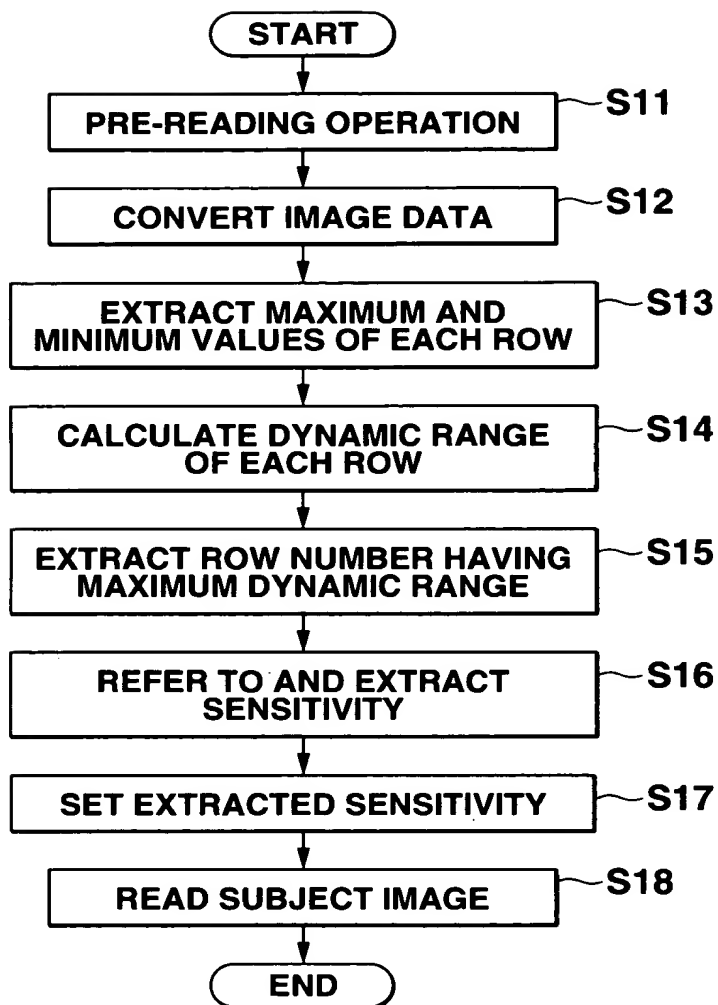
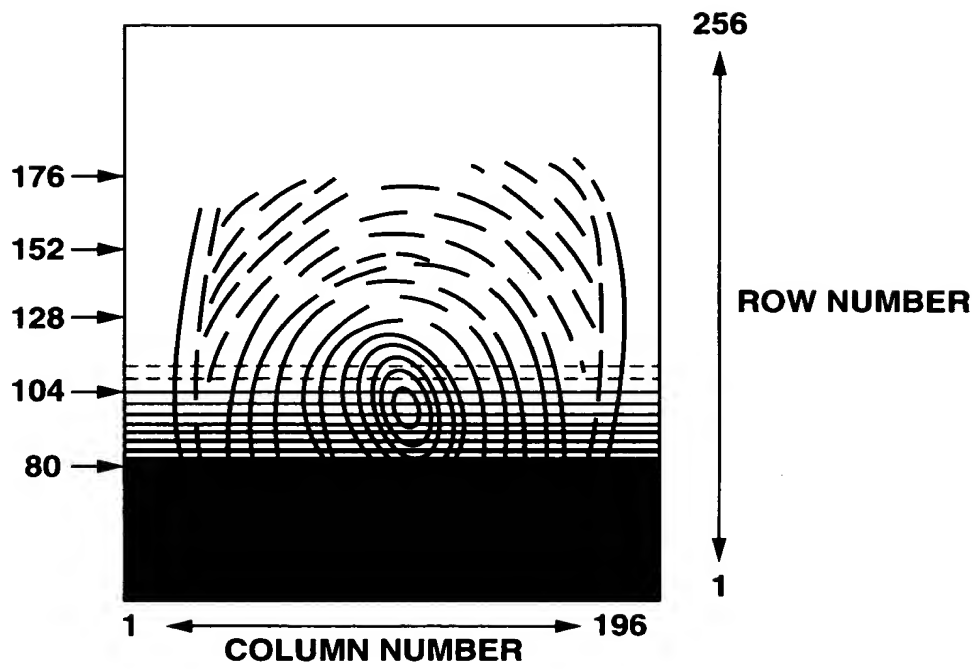


FIG. 2



**FIG.3**

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**FIG.4**

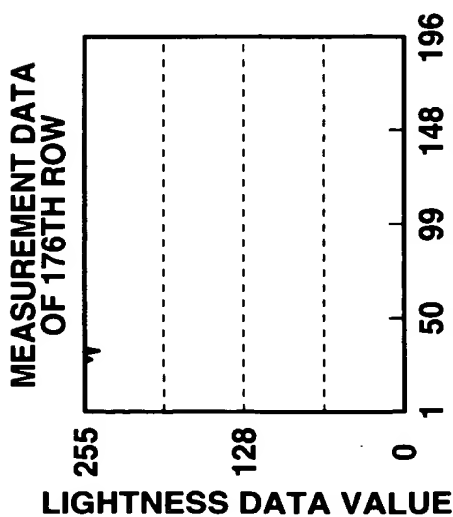


FIG. 5A

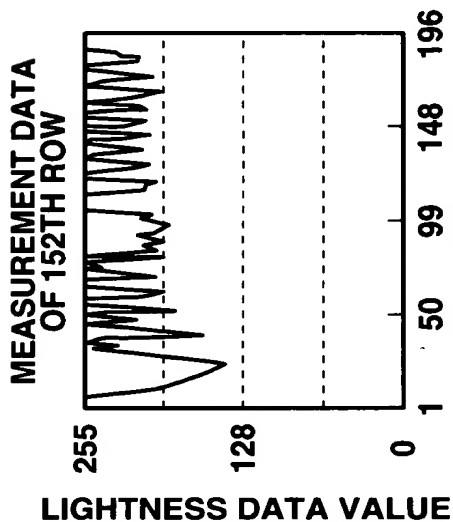


FIG. 5B

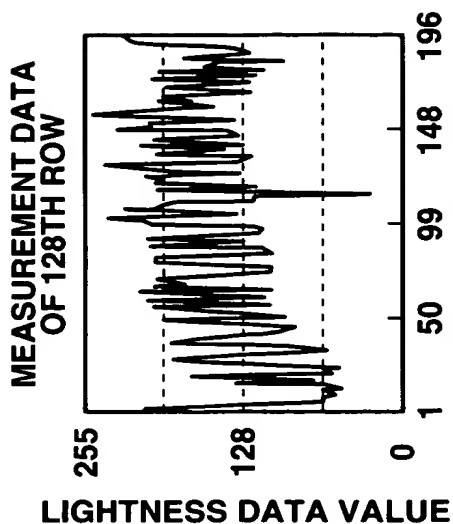


FIG. 5C

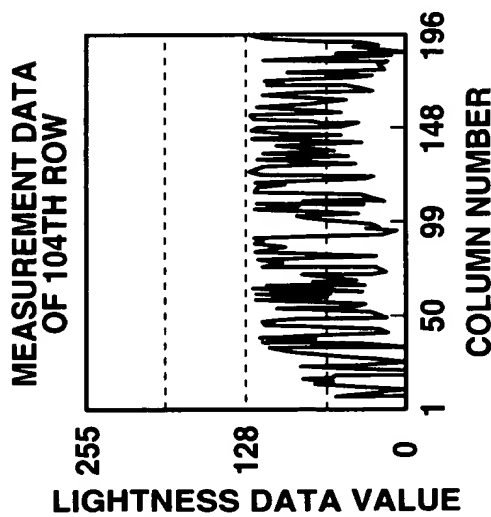


FIG. 5D

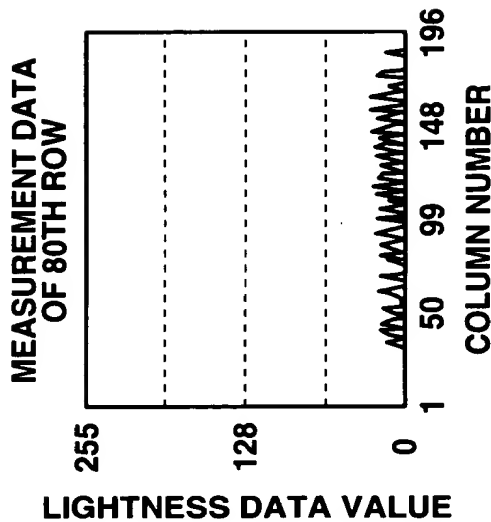


FIG. 5E

FIG.6A

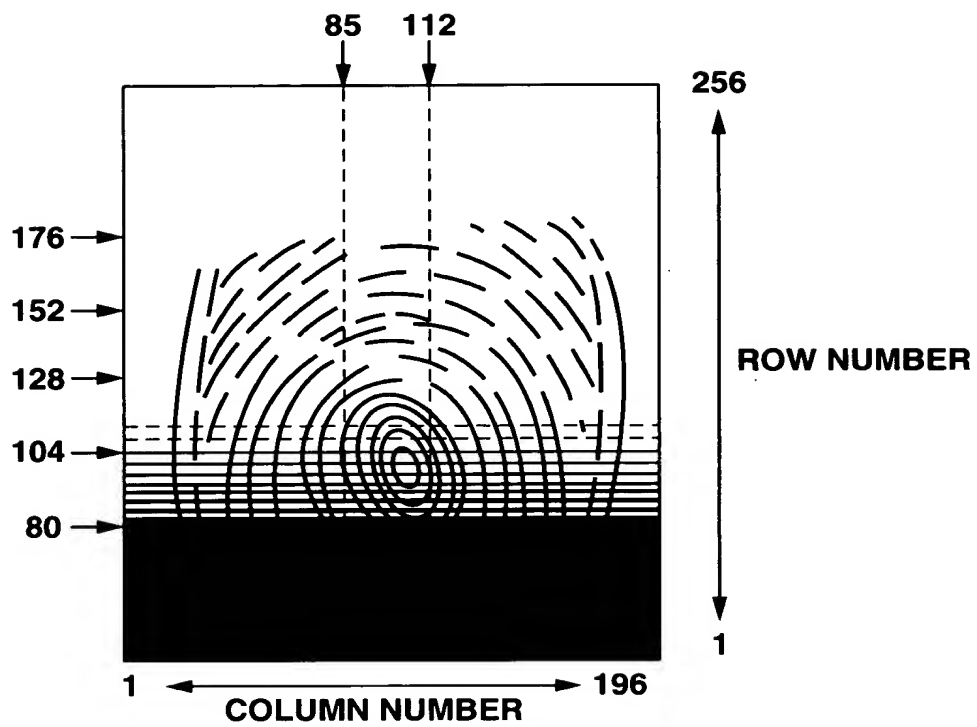
ROW NUMBER	80TH ROW	104TH ROW	128TH ROW	152ND ROW	176TH ROW
MAXIMUM VALUE	25	127	251	255	255
MINIMUM VALUE	0	0	27	153	249
DYNAMIC RANGE	25	127	224	102	6



FIG.6B

ROW NUMBER	1ST ROW	. . .	128TH ROW	. . .	256TH ROW
CHARGE ACCUMULATING PERIOD	T <sub>1</sub>	. . .	T <sub>128</sub>	. . .	T <sub>256</sub>

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**FIG.7**

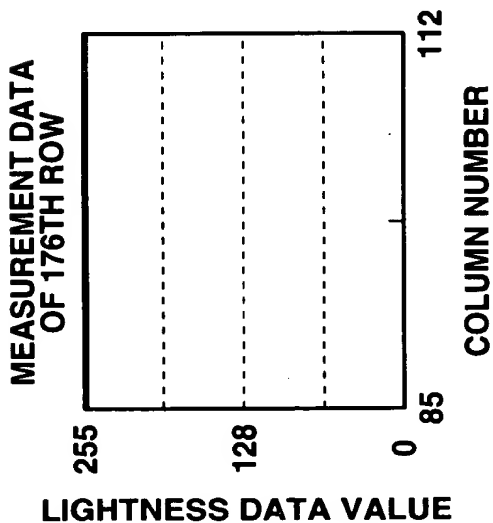


FIG.8A

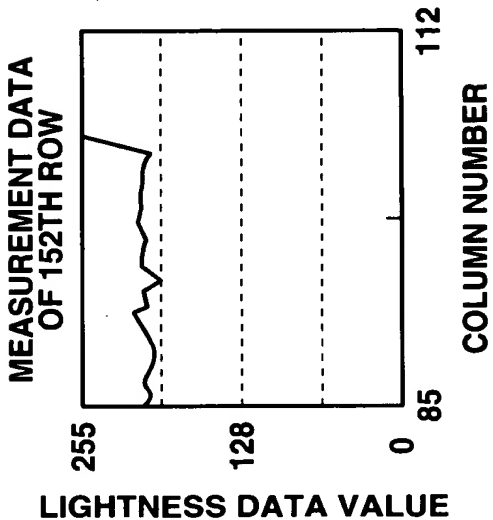


FIG.8B

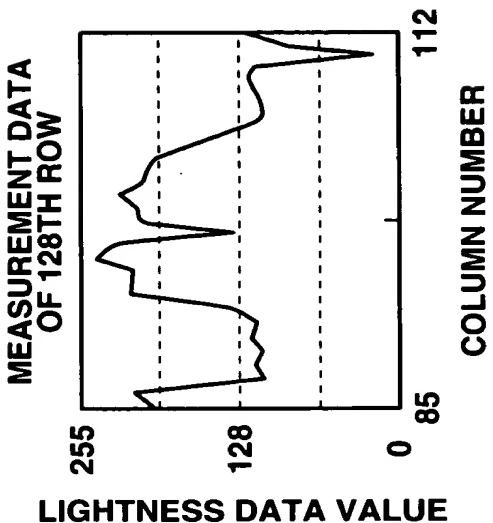


FIG.8C

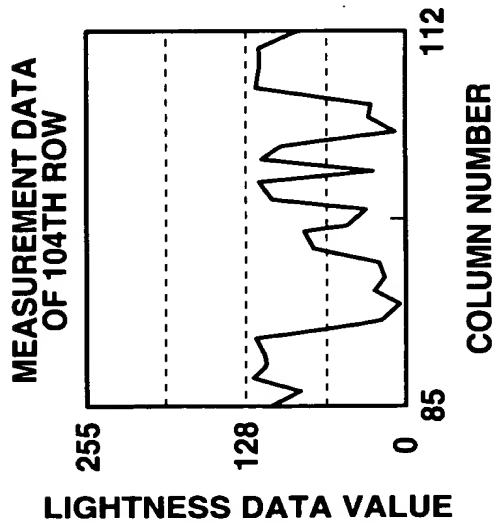


FIG.8D

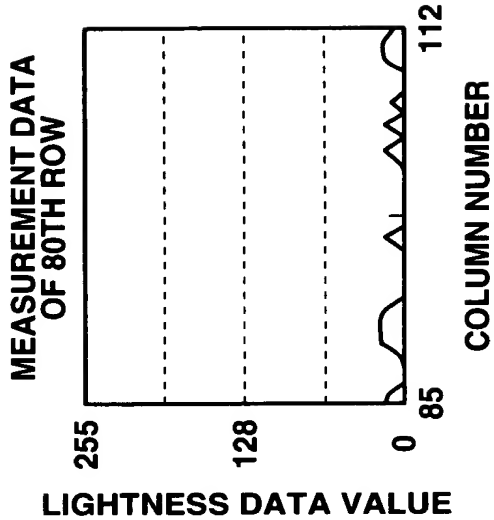


FIG.8E



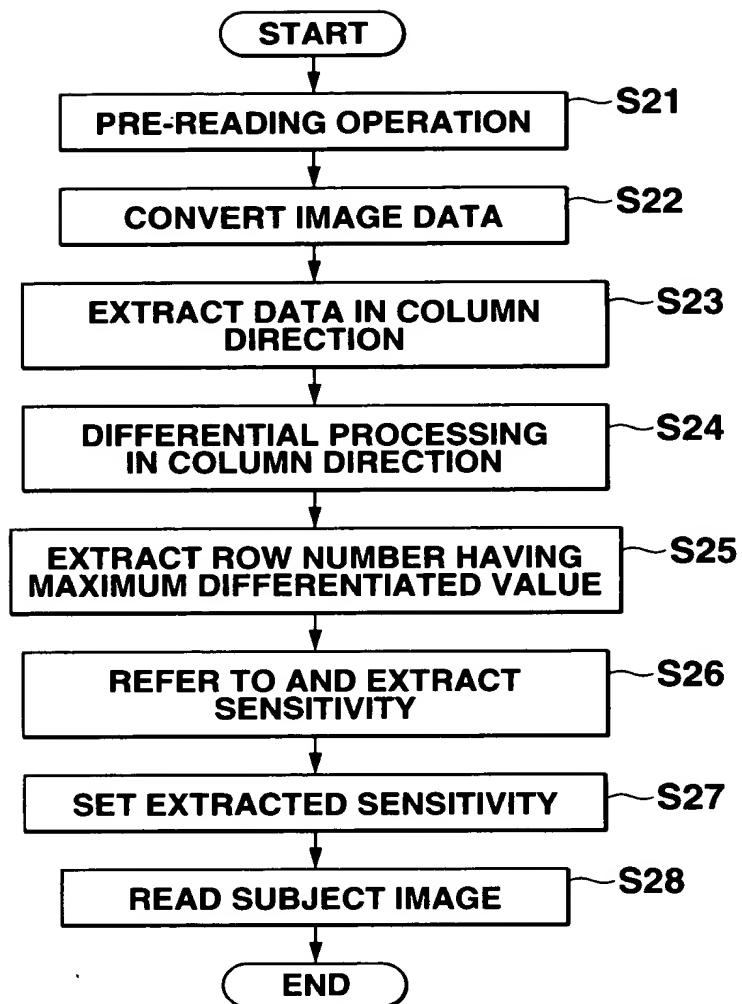
FIG.9A

ROW NUMBER	80TH ROW	104TH ROW	128TH ROW	152ND ROW	176TH ROW
MAXIMUM VALUE	23	117	243	255	255
MINIMUM VALUE	0	9	27	193	255
DYNAMIC RANGE	23	108	216	62	0



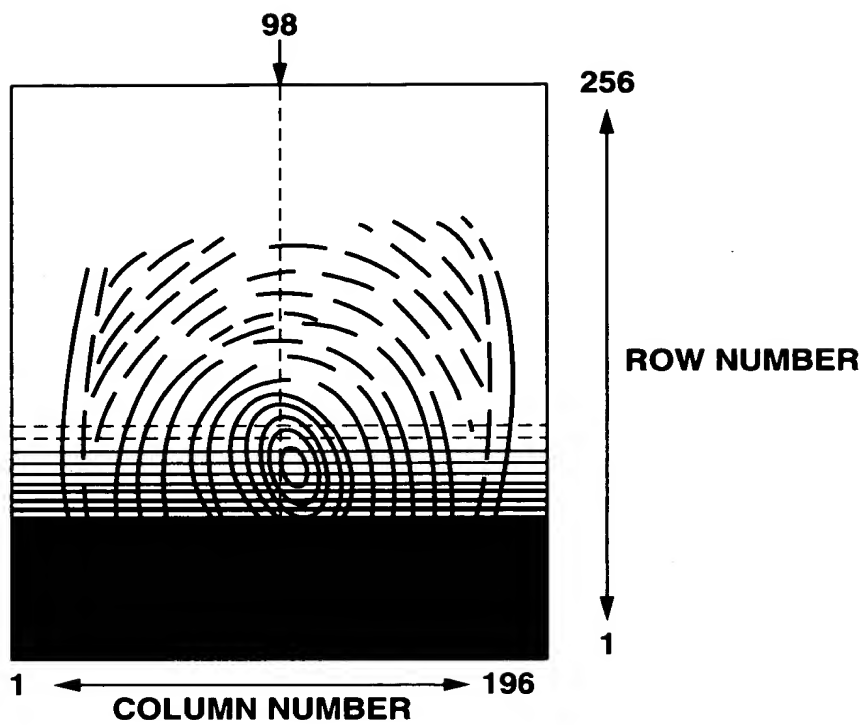
FIG.9B

ROW NUMBER	1ST ROW	. . .	128TH ROW	. . .	256TH ROW
CHARGE ACCUMULATING PERIOD	T <sub>1</sub>	. . .	T <sub>128</sub>	. . .	T <sub>256</sub>



**FIG.10**

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**FIG.11**

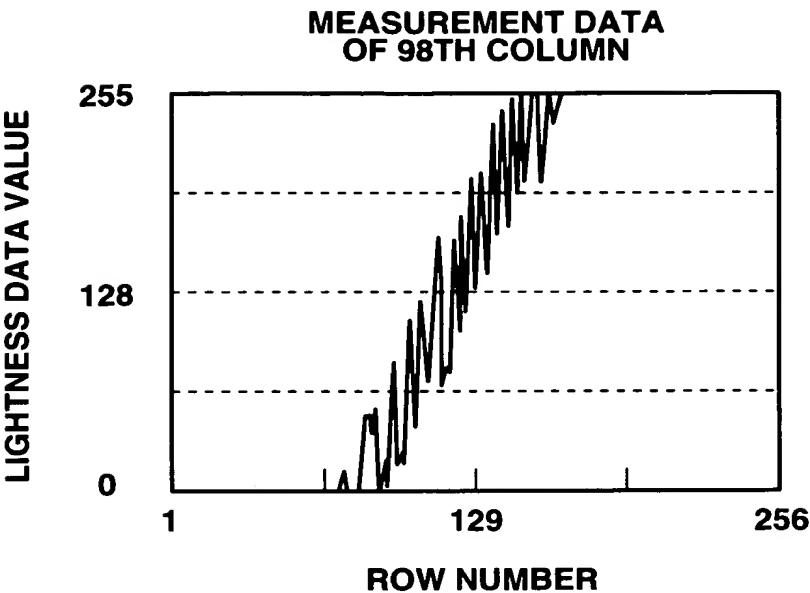


FIG.12A

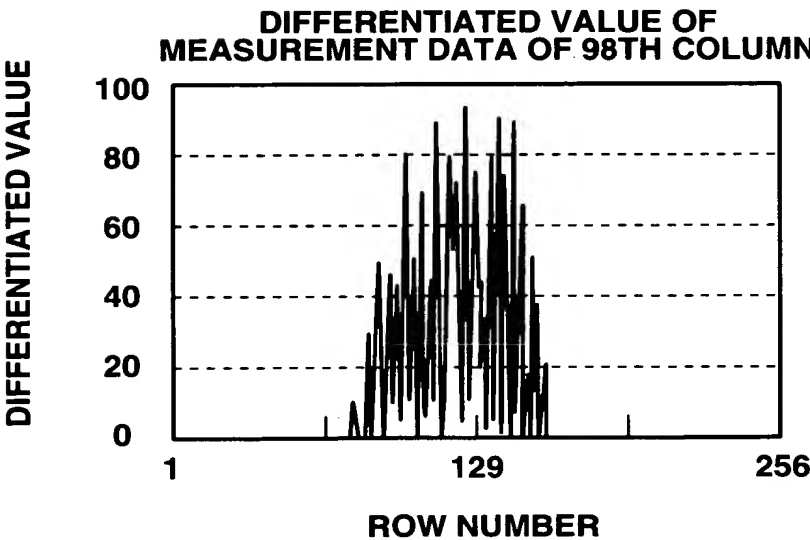


FIG.12B

FIG.13A

ROW NUMBER		121ST ROW	122ND ROW	123RD ROW	124TH ROW	125TH ROW	126TH ROW	127TH ROW	128TH ROW	129TH ROW	. . .	
DIFFERENTIATED VALUE		. . .	80	53	72	5	95	11	76	20	. . .	

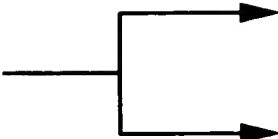
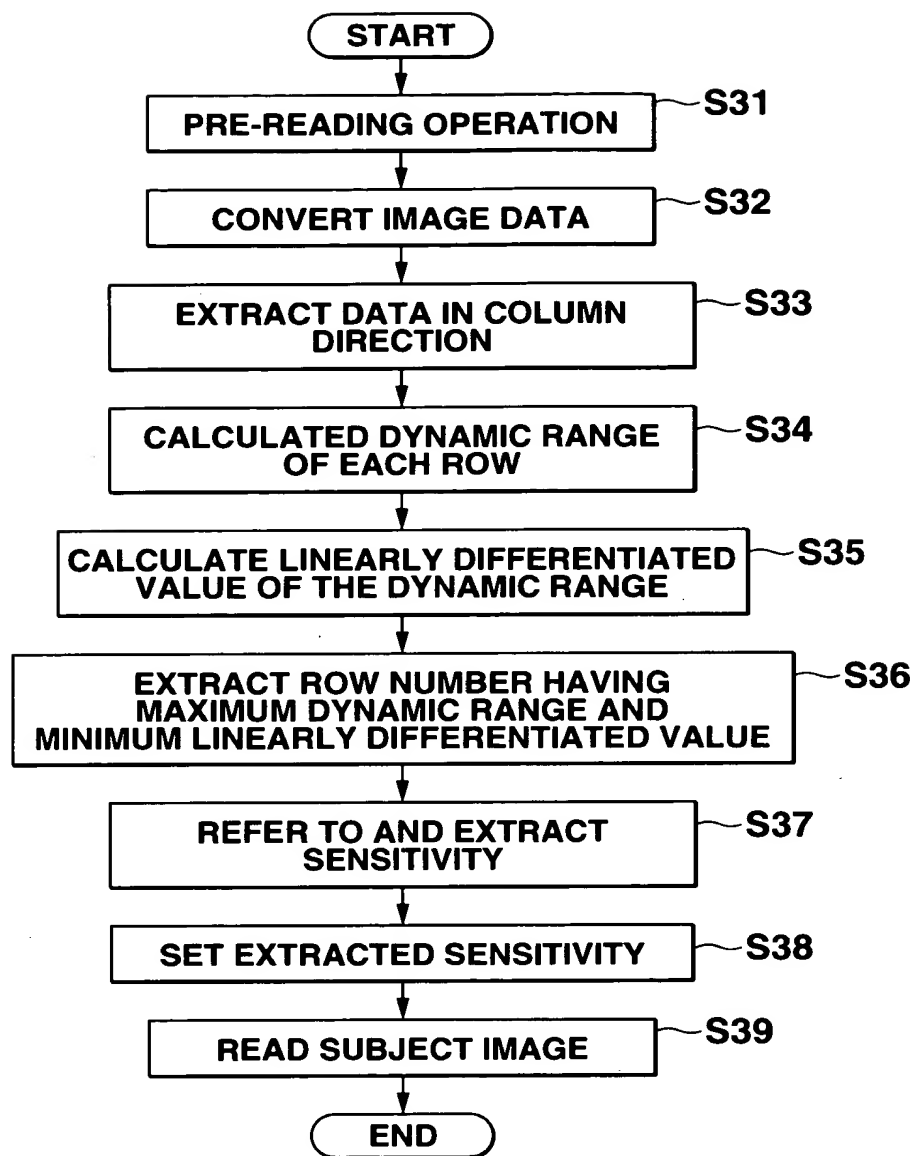


FIG.13B

ROW NUMBER		121ST ROW	122ND ROW	123RD ROW	124TH ROW	125TH ROW	126TH ROW	127TH ROW	128TH ROW	129TH ROW	. . .	
CHARGE ACCUMULATING PERIOD		. . .	T121	T122	T123	T124	T125	T126	T127	T128	T129	. . .



**FIG.14**

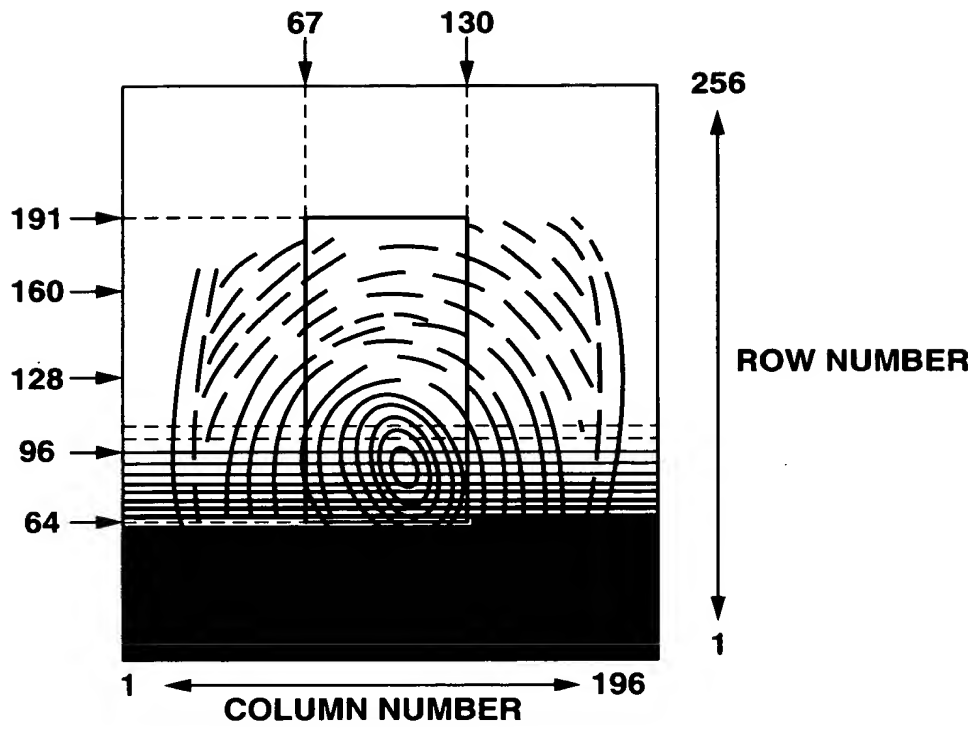
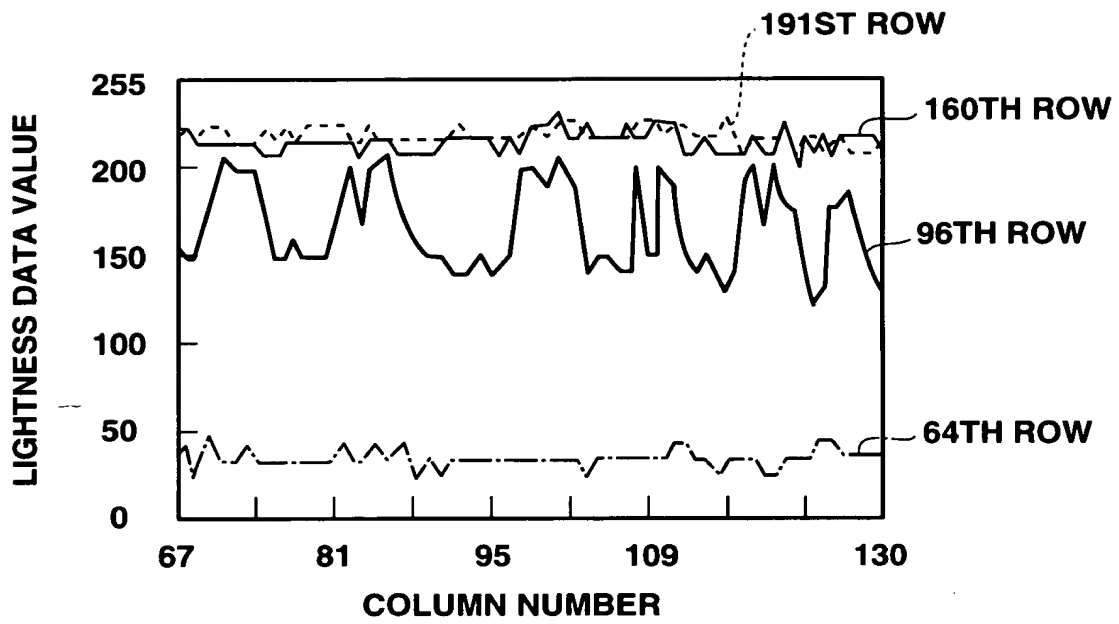


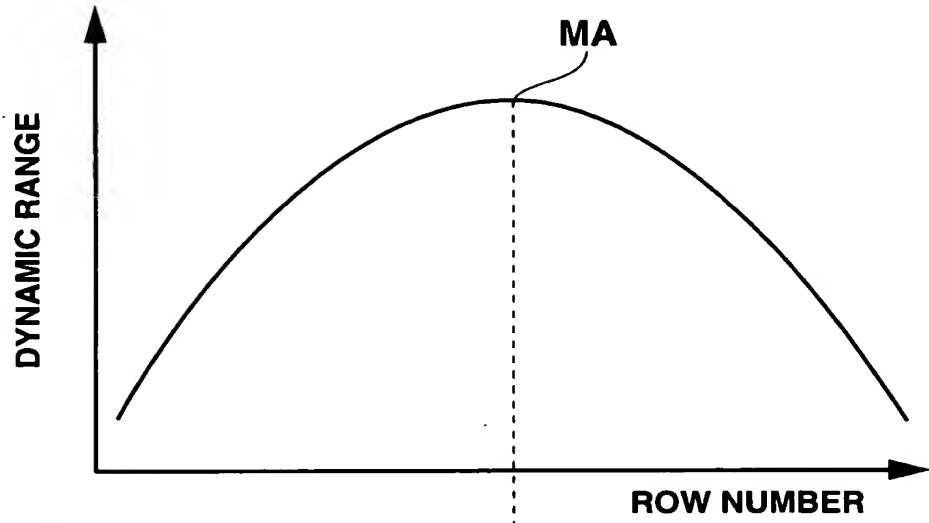
FIG.15

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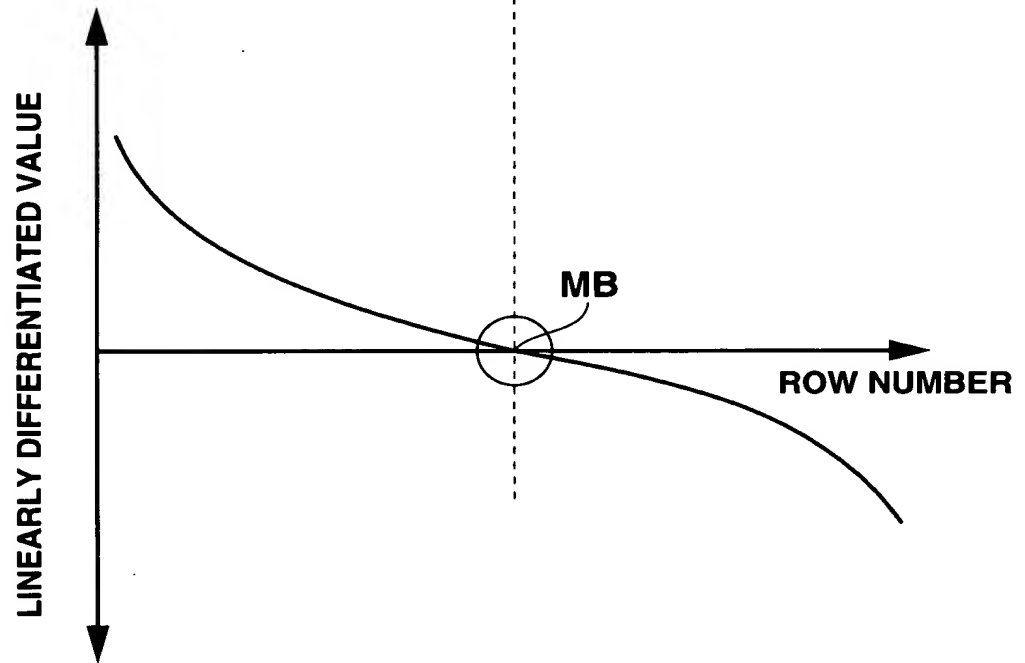


**FIG.16**





**FIG.17A**



**FIG.17B**

FIG.18A

ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
MAXIMUM VALUE	X <sub>64</sub>	. . .	X <sub>k-1</sub>	X <sub>k</sub>	X <sub>k+1</sub>	. . .	X <sub>191</sub>
MINIMUM VALUE	Y <sub>64</sub>	. . .	Y <sub>k-1</sub>	Y <sub>k</sub>	Y <sub>k+1</sub>	. . .	Y <sub>191</sub>
DYNAMIC RANGE	R <sub>64</sub>	. . .	R <sub>k-1</sub>	R <sub>k</sub> (MAX)	R <sub>k+1</sub>	. . .	R <sub>191</sub>
LINEARLY DIFFERENTIATED VALUE	. . .	D <sub>k-2</sub>	D <sub>k-1</sub> (MIN)	D <sub>k</sub>	D <sub>k+1</sub>	. . .	. . .

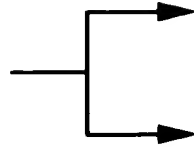


FIG.18B

ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
CHARGE ACCUMULATING PERIOD	T <sub>64</sub>	. . .	T <sub>k-1</sub>	T <sub>k</sub>	T <sub>k+1</sub>	. . .	T <sub>191</sub>

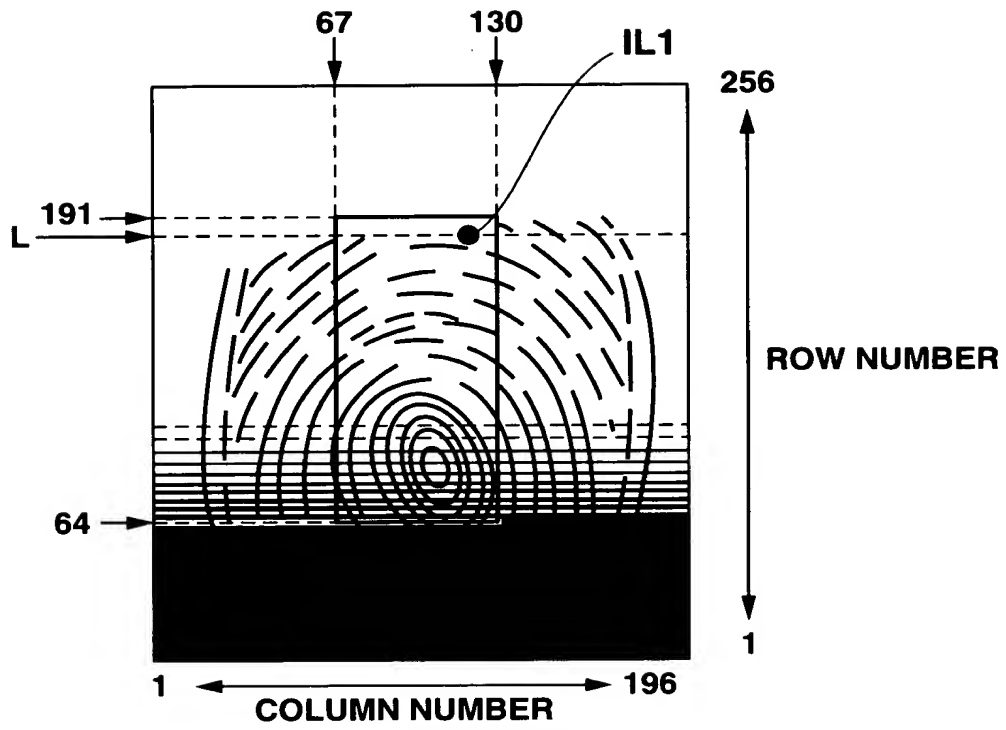
FIG.19A

ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
MAXIMUM VALUE	X <sub>64</sub>	. . .	X <sub>k-1</sub>	X <sub>k</sub>	X <sub>k+1</sub>	. . .	X <sub>191</sub>
MINIMUM VALUE	Y <sub>64</sub>	. . .	Y <sub>k-1</sub>	Y <sub>k</sub>	Y <sub>k+1</sub>	. . .	Y <sub>191</sub>
DYNAMIC RANGE	R <sub>64</sub>	. . .	R <sub>k-1</sub>	R <sub>k</sub> (MAX)	R <sub>k+1</sub>	. . .	R <sub>191</sub>



FIG.19B

ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
CHARGE ACCUMULATING PERIOD	T <sub>64</sub>	. . .	T <sub>k-1</sub>	T <sub>k</sub>	T <sub>k+1</sub>	. . .	T <sub>191</sub>



**FIG.20**

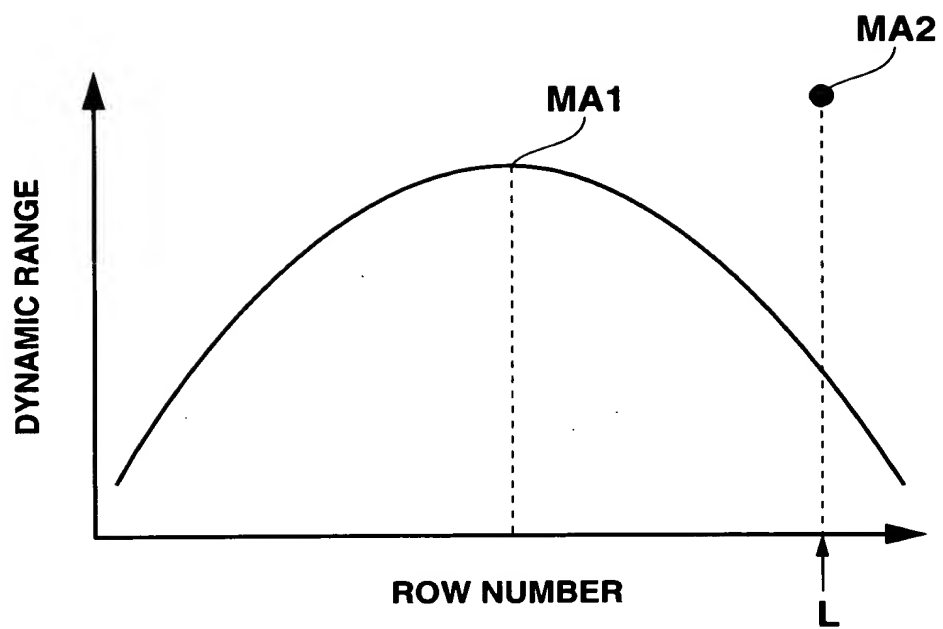


FIG.21

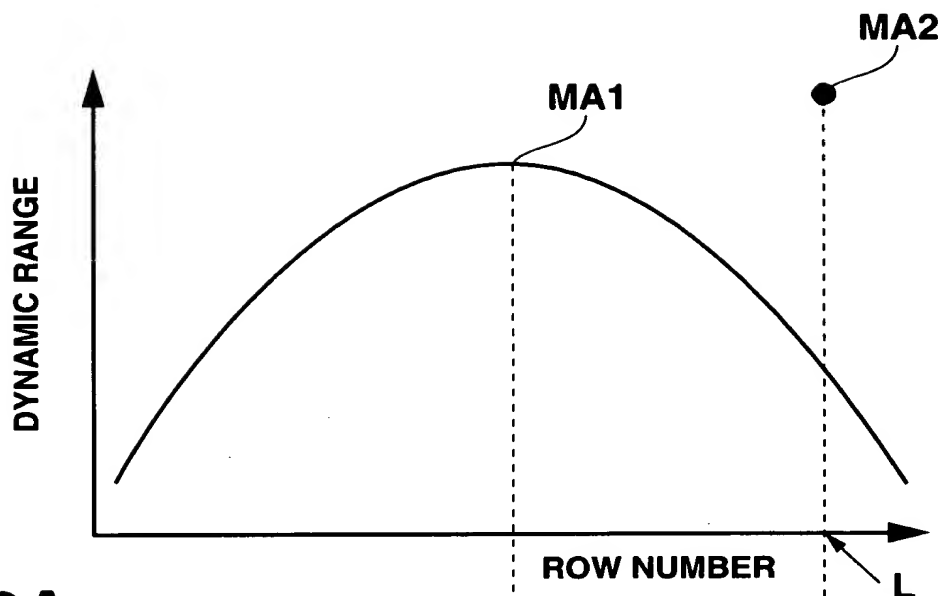


FIG.22A

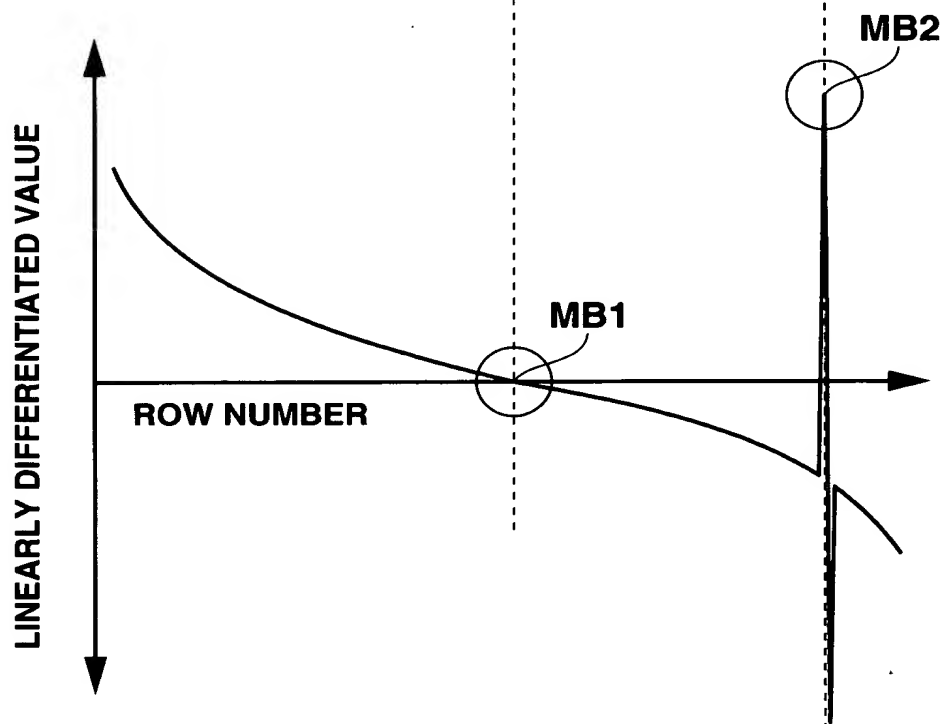
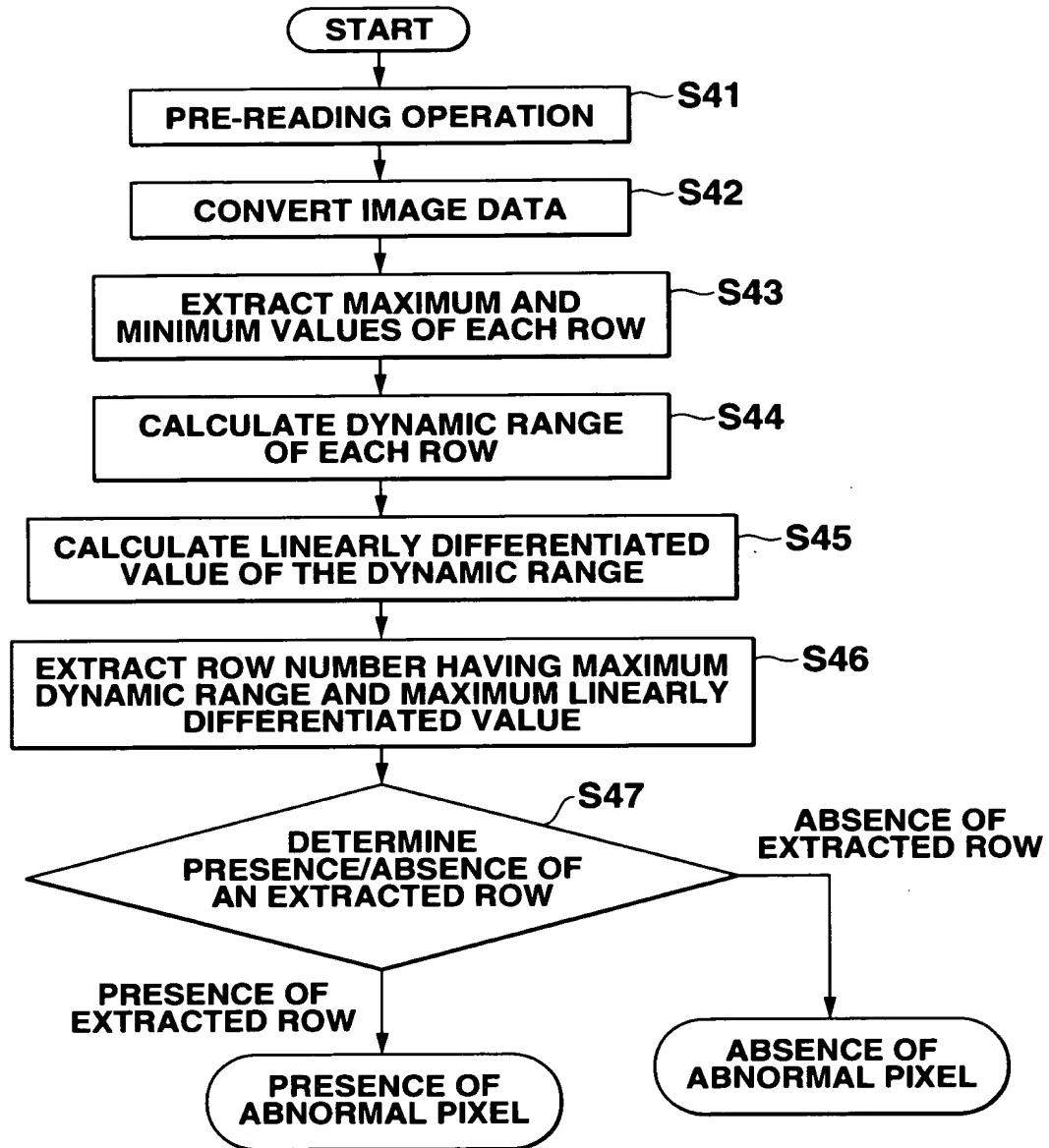


FIG.22B



**FIG.23**

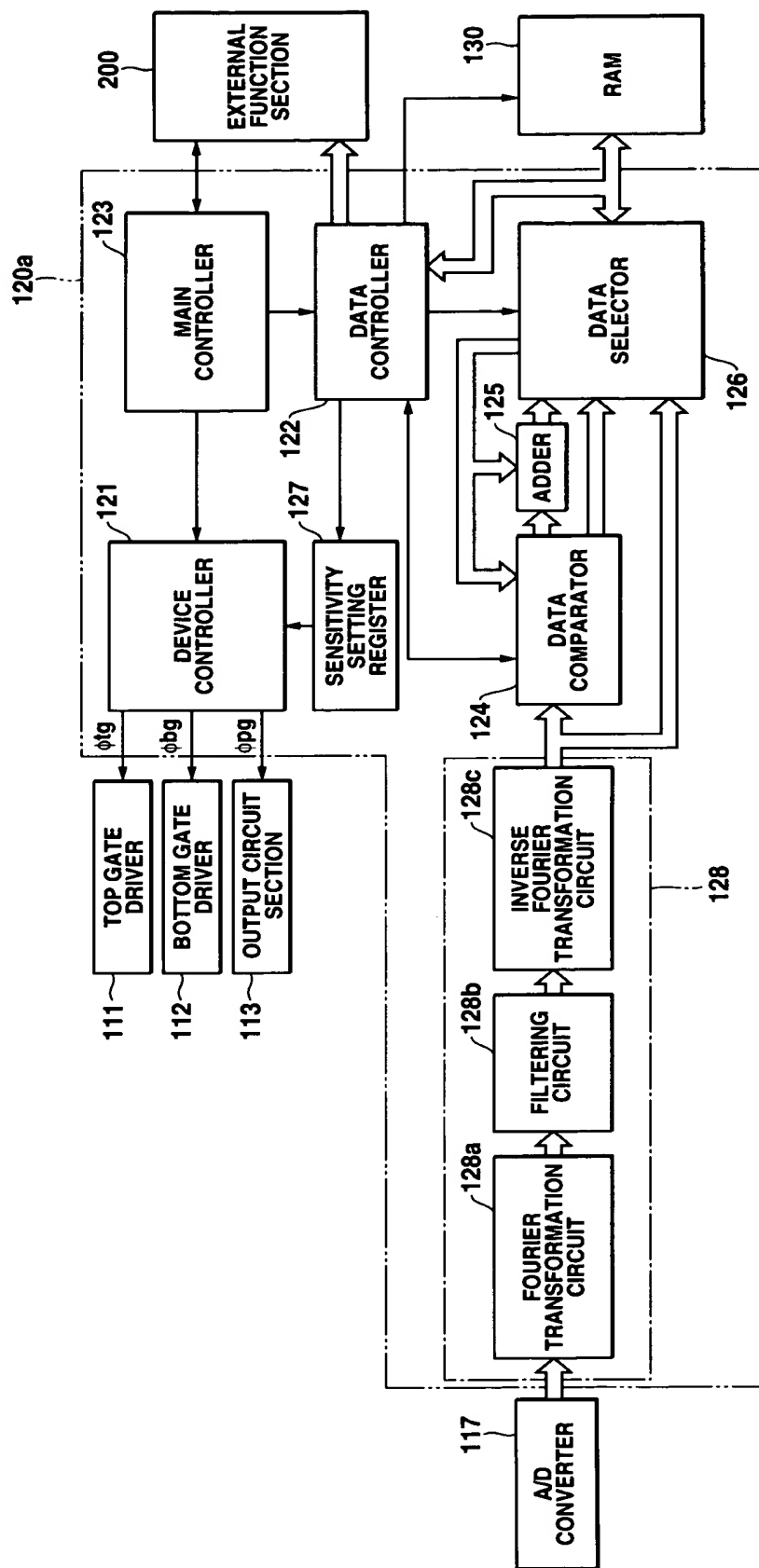
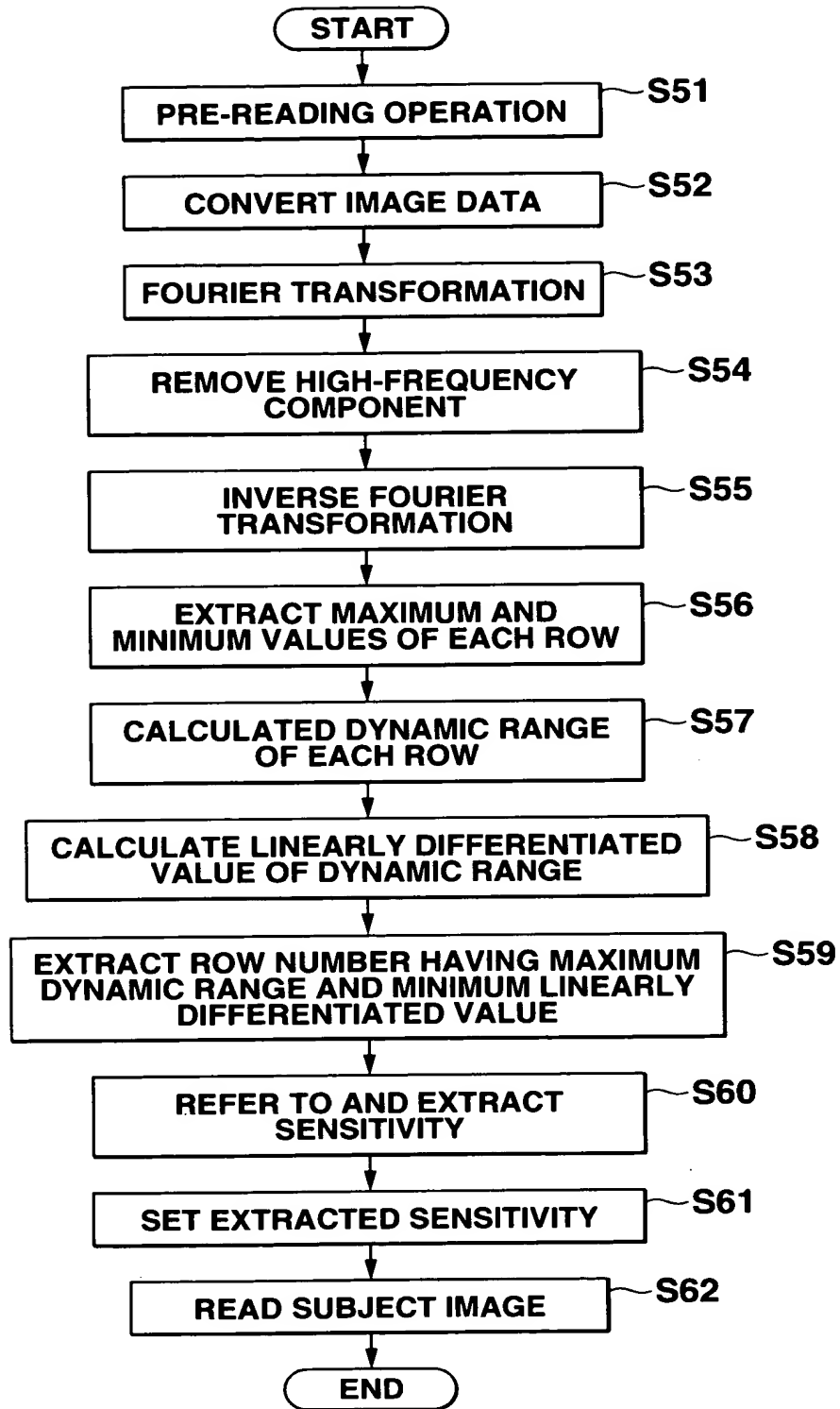


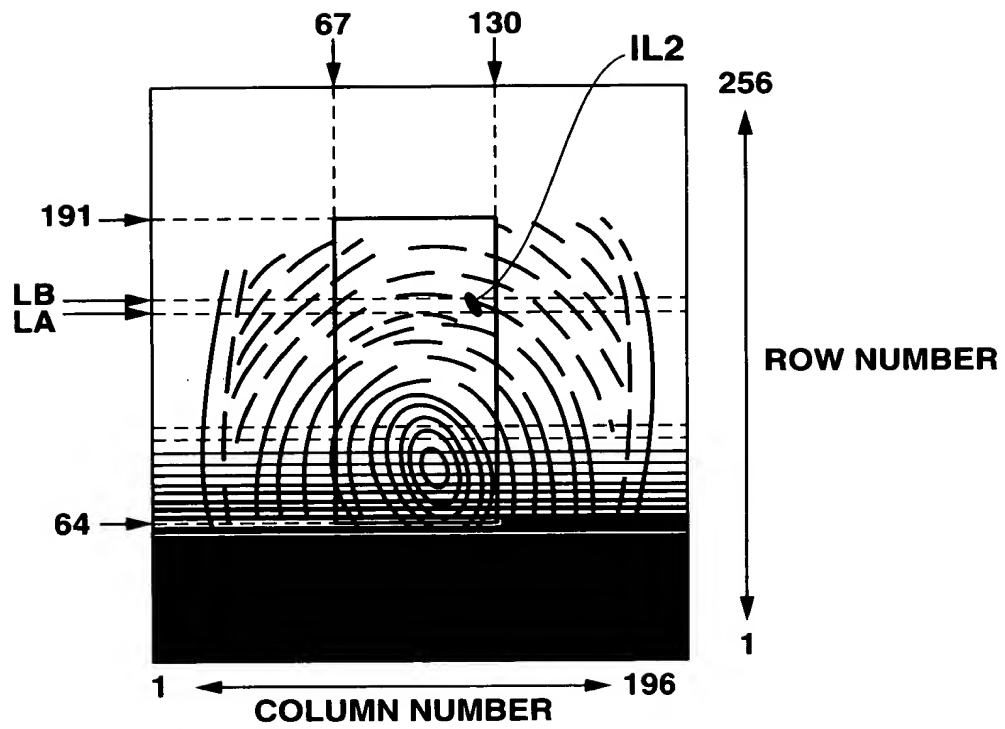
FIG.24



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**FIG.25**



**FIG.26**

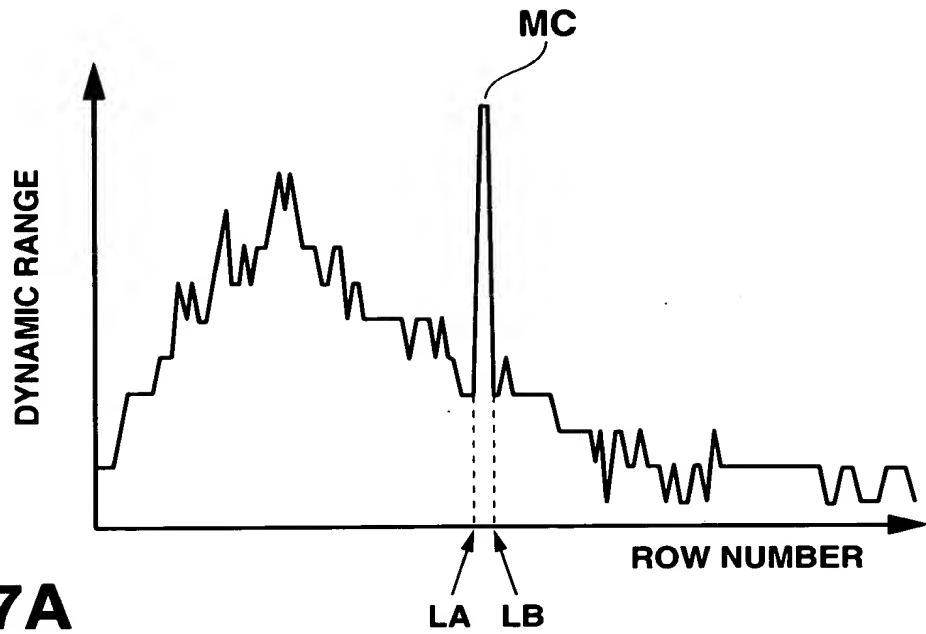


FIG.27A

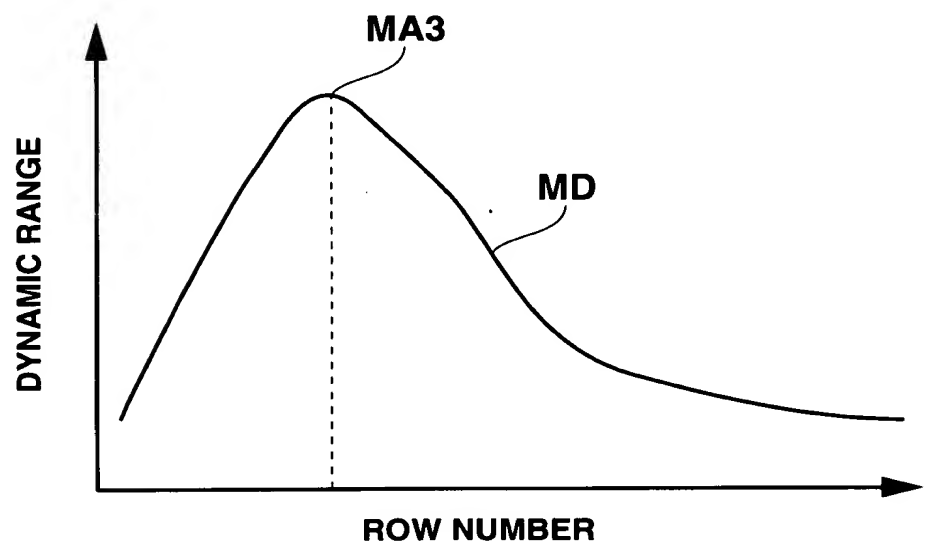
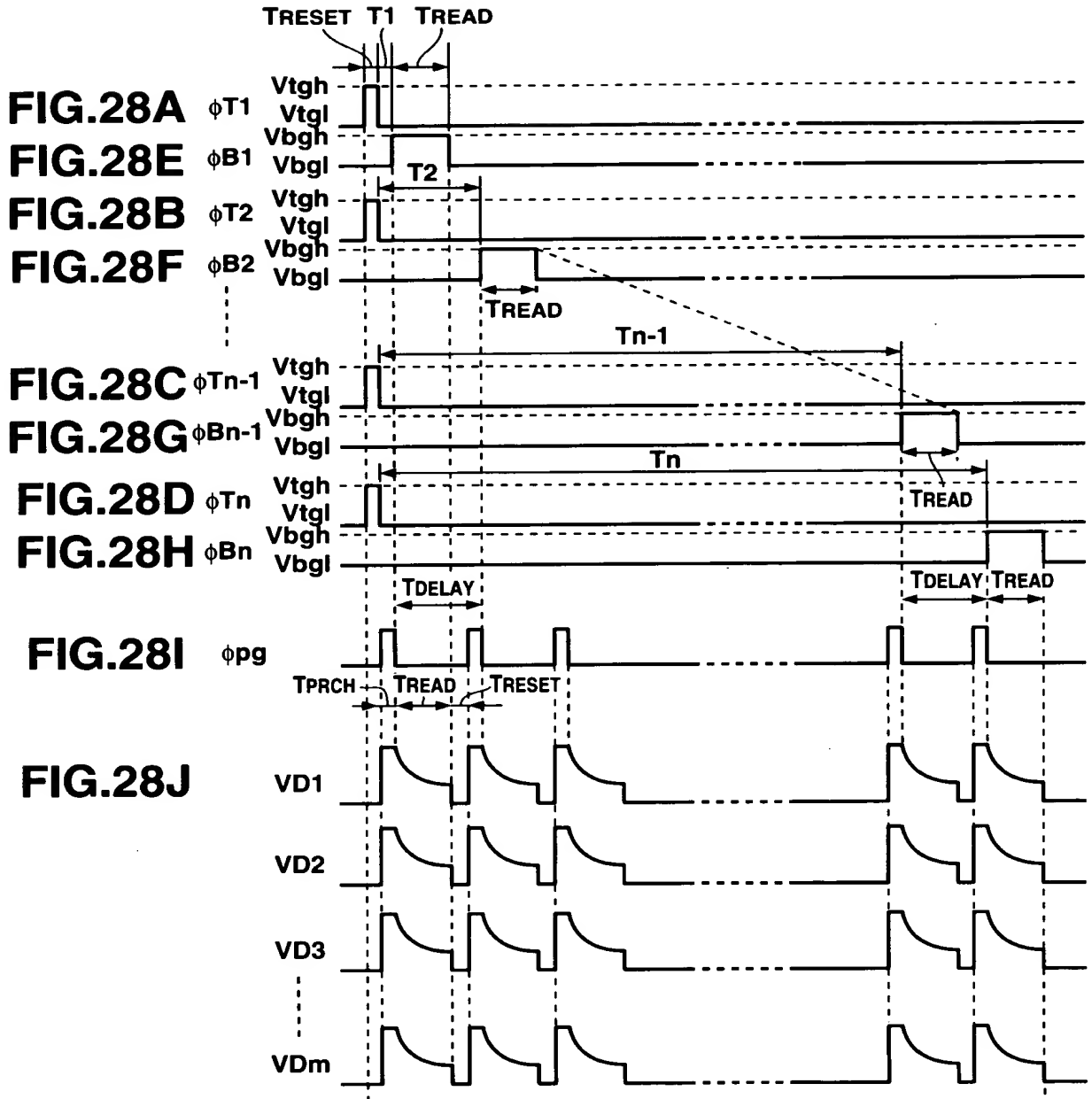
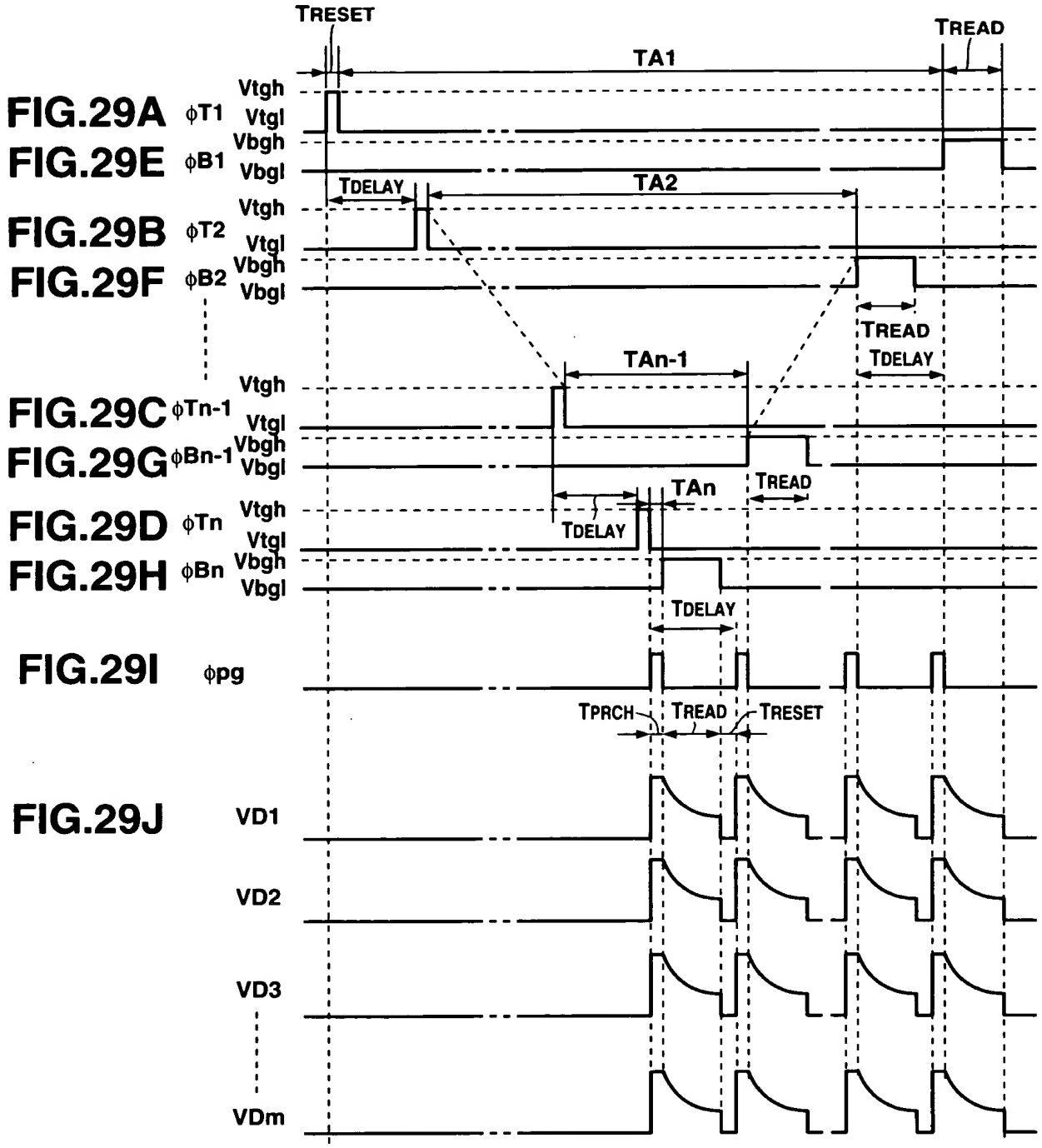


FIG.27B







PRIOR ART

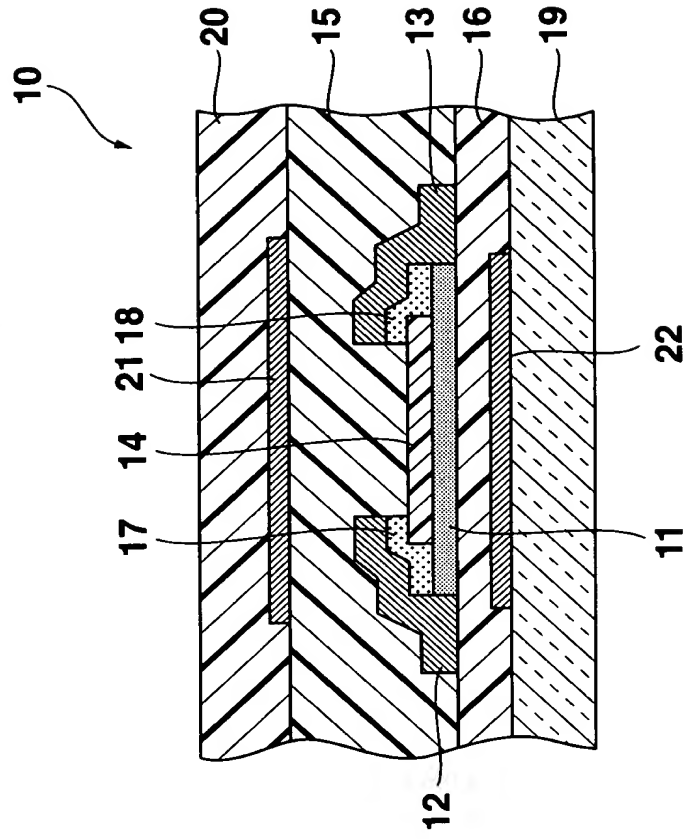


FIG.31A

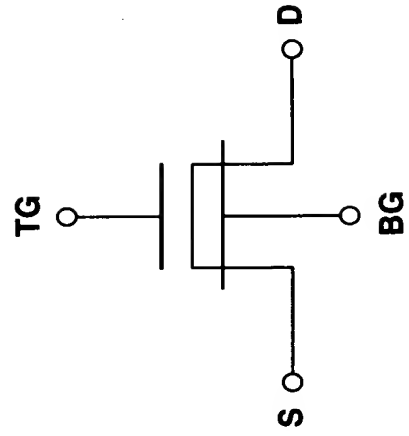


FIG.31B

# PRIOR ART

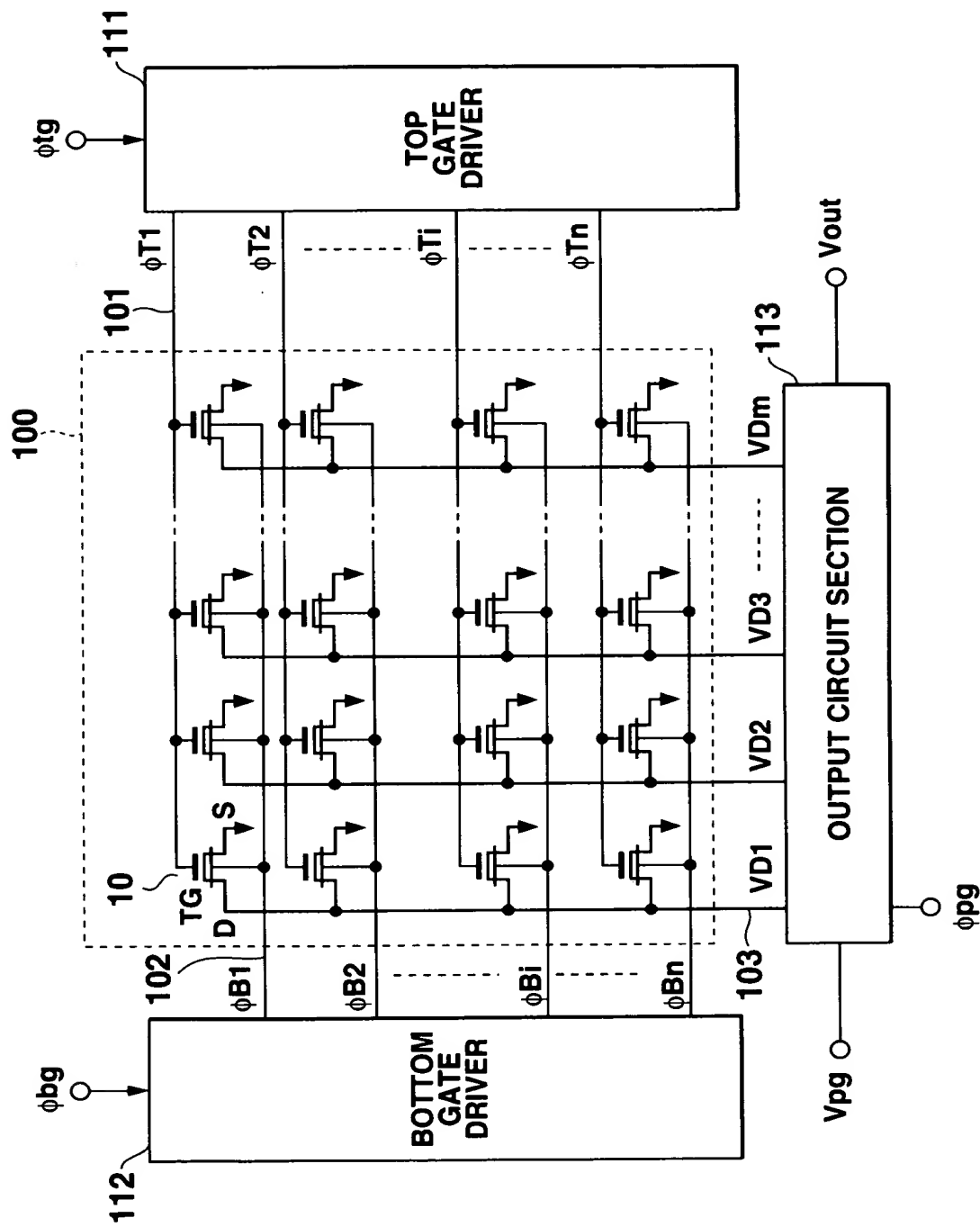


FIG.32



PRIOR ART

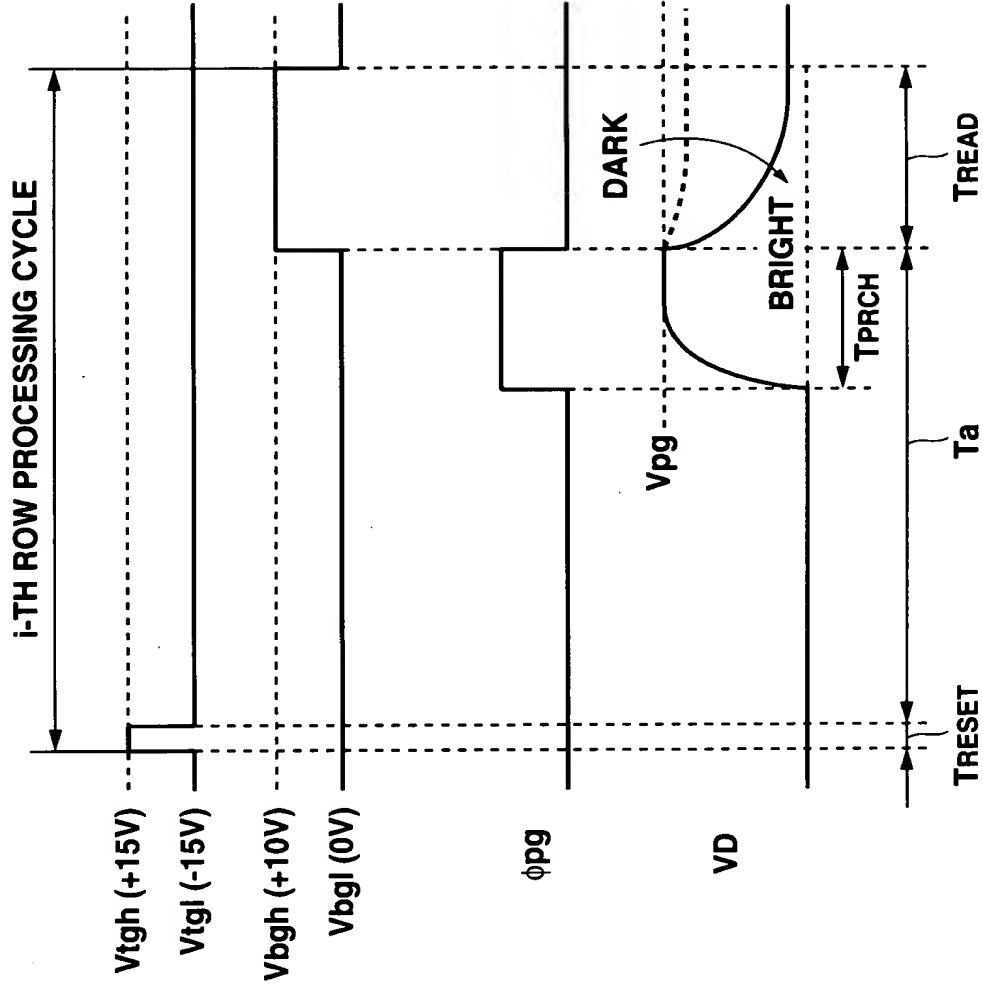


FIG.33A

FIG.33B

FIG.33C

FIG.33D